

Contents Volume 226 (1989)

Research Letters

Mutagen-induced recombination between stably integrated <i>neo</i> gene fragments in CHO and EM9 cells by D. Hellgren, S. Sahlén and B. Lambert (Sweden).....	1
Inhibition of mitomycin C-induced sister-chromatid exchanges in mouse bone marrow cells by the immunopotentiators Krestin and Lentinan by J. Hasegawa, M. Hosokawa, F. Okada and H. Kobayashi (Japan)	9
Increased frequency of spontaneous and X-ray-induced chromosomal aberrations in lymphocytes from neonates and the influence of caffeine — an in vitro study by J. Karsdon, J. van Rijn, H. Berger and A.T. Natarajan (The Netherlands)	13
A comparison of chromosomal aberrations induced by in vivo radiotherapy in human sperm and lymphocytes by R.H. Martin, A. Rademaker, K. Hildebrand, M. Barnes, K. Arthur, T. Ringrose, I.S. Brown and G. Douglas (Canada and U.S.A.).....	21
Formaldehyde-induced and spontaneous alterations in human <i>hprt</i> DNA sequence and mRNA expression by H.L. Liber, K. Benforado, R.M. Crosby, D. Simpson and T.R. Skopek (U.S.A.)	31
The involvement of dimethyl sulfoxide in a bacteriotoxic response of the Ames assay tester strains TA98 and TA100 by D.J. Vaughan, J.A. Baptista, G.R. Perdomo and J.J. Krepsinsky (Canada)	39
Intermediate (6-4) photoproduct repair in Chinese hamster V79 mutant V-H1 correlates with intermediate levels of DNA incision and repair replication by D.L. Mitchell, M.Z. Zdzienicka, A.A. van Zeeland and R.S. Nairn (U.S.A. and The Netherlands)	43
Chronic γ -radiation sensitivity of skin fibroblasts from patients with non-Hodgkin's lymphoma by M.A. Hannan, B.P. Smith, D. Sigut, E.F. Rabe, P.T. Ozand, M.A. Ali and M.H. Amer (Saudi Arabia)	49
Mutagenicity of the reaction products of carbazole in the presence of nitrogen dioxide and nitrocarbazole by Y. Hisamatsu, Y. Shida and H. Matsushita (Japan)	55
A restudy of the efficacy of adriamycin in inducing dominant lethals in mouse spermatogonia stem cells by W.M. Generoso, K.T. Cain, L.A. Hughes and L.B. Foxworth (U.S.A.).....	61
Chromosomal aberrations in bone marrow and peripheral blood cells from the same rats by A.K. Sinha, V.A. Linscombe and B.B. Gollapudi (U.S.A.)	65
Hyperthermia-induced modulation of killing and mutation by UV and <i>N</i> -methyl- <i>N'</i> -nitro- <i>N</i> -nitrosoguanidine in V79 cells by S. Banerjee, G. Bhaumik and S.B. Bhattacharjee (India)	69
Labeling of human centromeres using an alphoid DNA consensus sequence: application to the scoring of chromosome aberrations by J. Meyne, L. Gayle Littlefield and R.K. Moyzis (U.S.A.)	75
Dose-response relationship for ethyl nitrosourea-induced sex-linked recessive lethals in germ cells of the female <i>Drosophila melanogaster</i> at relatively low doses by S. Zimmering, E. Thompson, J. Aquavella and B. Reeder (U.S.A.)	81
Genetic effects of ^{131}I in reproductive cells of male mice by V.A. Shevchenko, L.K. Ramaya, M.D. Pomerantseva, A.M. Lyaginskaya and S.I. Dementiev (U.S.S.R.)	87
Evaluation of the genetic effects of ^{238}Pu incorporated into mice by M.D. Pomerantseva, L.K. Ramaya, V.A. Shevchenko, G.A. Vilkina and A.M. Lyaginskaya (U.S.S.R.).....	93
Enhancing effect of tetrandrine on sister-chromatid exchanges induced by mitomycin C and cigarette-smoke condensate in mammalian cells by S.-G. Xing, Z.-L. Wu, W.-Z. Whong and T. Ong (U.S.A.).....	99
Modifying effects of components of plant essence on the induction of sister-chromatid exchanges in cultured Chinese hamster ovary cells by Y.F. Sasaki, H. Imanishi, T. Ohta and Y. Shirasu (Japan)	103
Lack of induction of somatic aneuploidy in the mouse by nitrilotriacetic acid (NTA) by A. Russo, F. Pacchierotti, B. Bassani and A.G. Levis (Italy)	111
G ₂ effects of DNA-repair inhibitors on chromatid-type aberrations in root-tip cells treated with maleic hydrazide and mitomycin C by S. Mateos, J. Piñero, T. Ortiz and F. Cortés (Spain)	115
Properties of genetic instability during the vegetative growth of <i>Coprinus radiatus</i> by O. Ozier-Kalogeropoulos and E. Guillemet (France)	121
Self-fructification associated with genetic instability in <i>Coprinus radiatus</i> by O. Ozier-Kalogeropoulos and E. Guillemet (France)	127

2-Chlorobenzylidene malonitrile (CS) causes spindle disturbances in V79 Chinese hamster cells by E. Schmid, M. Bauchinger, K. Ziegler-Skylakakis and U. Andrae (F.R.G.)	133
Differential BrdU uptake in 3 cell cycles and the resultant 3-way sister-chromatid differentiation at M ₃ endoreduplicated chromosome level — a hypothesis by R. Bamezai (India)	137
Non-mutability by ultraviolet light in <i>uvrD recB</i> derivatives of <i>Escherichia coli</i> WP2 <i>uvrA</i> is due to inhibition of RecA pro- tein inactivation by R. Woodgate, B.A. Bridges and C. Kelly (Great Britain)	141
Methyl methanesulphonate (MMS) is clearly mutagenic in <i>S. typhimurium</i> strain TA1535; a comparison with strain TA100 by E. Eder, C. Deininger and M. Wiedenmann (F.R.G.)	145
Mutagenicity on chlorination of products formed by ozonation of naphthoresorcinol in water by Y. Sayato, K. Nakamuro and H. Ueno (Japan)	151
Mutagenic and teratogenic effects of acrylamide in the mammalian spot test by A. Neuhäuser-Klaus and W. Schmahl (F.R.G.)	157
Interspecies homology of cytochrome P-450: toxicological significance of cytochrome P-450 cross-reactive with anti-rat P-448-H antibodies in liver microsomes from dogs, monkeys and humans by K. Ohta, M. Kitada, H. Ohi, M. Komori, K. Nagashima, N. Sato, K. Muroya, T. Kodama, M. Nagao and T. Kamataki (Japan)	163
7-Amino-2,4,6-trimethylquinoline as a mutagenic pyrolysate compound of polyurethane foam by T. Hirayama, T. Watanabe, M. Ono, Y. Fukunaga and S. Fukui (Japan)	169
Simple method for precise determination of chemical lethality in the L-arabinose resistance test of <i>Salmonella typhimurium</i> by T. Roldán-Arjona, M. Ruiz-Rubio and C. Pueyo (Spain)	175
Mutagenicity of 2,6-dinitrotoluene and its metabolites, and their related compounds in <i>Salmonella typhimurium</i> by M. Sayama, M.-a. Mori, T. Shirokawa, M. Inoue, T. Miyahara and H. Kozuka (Japan)	181
Differential effects of 5-azacytidine and 5-azadeoxycytidine on cytotoxicity, DNA-strand breaking and repair of X-ray- induced DNA damage in HeLa cells by R.D. Snyder and P.J. Lachmann (U.S.A.)	185
Evaluation of the genotoxicity of domoic acid in a hepatocyte-mediated assay with V79 Chinese hamster lung cells by C.G. Rogers and B.G. Boyes (Canada)	191
Cytogenetic effects of 3,4-dichloroaniline in human lymphocytes and V79 Chinese hamster cells by M. Bauchinger, U. Kulka and E. Schmid (F.R.G.)	197
Restriction endonucleases do not induce sister-chromatid exchanges in Chinese hamster ovary cells by W.F. Morgan, H.W. Chung, J.W. Phillips and R.A. Winegar (U.S.A.)	203
Reduction of the translation fidelity by kanamycin: effects on growth and mutant frequency in <i>S. typhimurium</i> TA102 by E. Gocke (Switzerland)	211
Carcinogenic tryptophan pyrolysis products in airborne particles and rain water by S. Manabe, E. Uchino and O. Wada (Japan)	215
Cytogenetic response of normal human and ataxia telangiectasia G ₂ cells exposed to X-rays and ara C by H. Mozdarani and P.E. Bryant (Great Britain)	223
Release of mutagens from finished leather by E. Clonfero, R. Montini, P. Venier and A.G. Levis (Italy)	229
Testing of genotoxic effects of 2,4-dichlorophenoxyacetic acid (2,4-D) using multiple genetic assay systems of plants by T.S. Kumuri and K. Vaidyanath (India)	235
The Chinese hamster <i>aprt</i> gene as a mutational target. Its sequence and an analysis of direct and inverted repeats by J.G. de Boer, E.A. Drobetsky, A.J. Grosovsky, M. Mazur and B.W. Glickman (Canada)	239
Mutational specificity studies of endogenous mammalian cell loci: methodological aspects by B.W. Glickman, P.J. de Jong, J.G. de Boer, E.A. Drobetsky and A.J. Grosovsky (Canada)	245
Preliminary molecular analysis of the TK locus in L5178Y large- and small-colony mouse lymphoma cell mutants by R.R. Cobb, J. Martin, E. Korytynski, L. Monteith and T.J. Hughes (U.S.A.)	253
DNA photolyase in <i>E. coli</i> : effects on UV mutagenesis by plasmids expressing the <i>phr</i> gene by K. Yamamoto and R. Bockrath (Japan and U.S.A.)	259
Interference of Bis-Tris buffer with the diaminobenzoic acid fluorescence assay used to quantify DNA by W.E. Schy and M.J. Plewa (U.S.A.)	263
The effect of temperature on the movement of P DNA elements in somatic tissues of <i>Drosophila melanogaster</i> by J.S. Gunn, R.C. Woodruff and R.L. Ludwiczak (U.S.A.)	267
Base-pair substitutions alter the site-specific mutagenicity of UV and MNNG in the <i>SUP4-o</i> gene of yeast by B.A. Kunz, B.G. Ayre, A.M.T. Downes, S.E. Kohalmi, C.R. McMaster and M.G. Peters (Canada)	273
Contents, Vol. 226 (1989)	279

